

AGILENT TECHNOLOGIES, INC.  
Legal Department, DL429  
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PATENT APPLICATION

ATTORNEY DOCKET NO. 10031440-1

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Gregory D. VanWiggeren et al

Serial No.:

Examiner:

Filing Date:

Group Art Unit:

Title: Optical Phase Measurement Of Target

COMMISSIONER FOR PATENTS

PO Box 1450

Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:  
☐ Statement under 37 CFR 1.97(e), or  
☐ a \$180.00 Processing fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:  
☐ Statement under 37 CFR 1.97(e), and  
☐ a \$180.00 processing fee under 37 CFR 1.17(p).  
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge to Deposit Account **50-1078** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **50-1078** pursuant to 37 CFR 1.25.

☐ Applicant(s) submit herewith Form PTO 1449. References identified with an asterisk (\*) were disclosed in Patent Application No. \_\_\_\_\_ filed \_\_\_\_\_, now U. S. Patent No. \_\_\_\_\_, and, as such, copies thereof are not included pursuant to the provisions of 37 CFR 1.98(d).

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

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Date of Deposit

*March 8, 2004*

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

By

*Nelia T. de Guzman*

Typed Name: Nelia T. de Guzman

Respectfully submitted,

Gregory D. VanWiggeren et al

By

*John L. Imperato*

John L. Imperato

Attorney/Agent for Applicant(s)

Reg. No. 40,026

Date: March 8, 2004

<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	ATTY. DOCKET NO.	SERIAL NO.
	10031440-1	
	APPLICANT <b>Gregory D. VanWiggeren et al</b>	
	FILING DATE	GROUP

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	*	DOCUMENT NUMBER	DATE	NAME

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	Dennis Derickson, Editor, "Fiber Optic Test And Measurement", ISBN 0-13-534330-5, Pages 42 - 44.
	S. G. Nelson, K. S. Johnston, S. S. Yee, "High Sensitivity Surface Plasmon Resonance Sensor Based On Phase Detection", Sensors And Actuators B 35 - 36 (1996); Pages 187 - 191.
	Yu Xinglong, Zhao Lequn, Jiang Hong, Wang Haojuan, Yin Chunyong, Zhu Shengggeng, "Immunosensor Based On Optical Heterodyne Phase Detection", Sensors And Actuators B 76 (2001); Pages 199 - 202.

EXAMINER	DATE CONSIDERED
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	Kun-Huang Chen, Cheng-Chih Hsu, Der-Chin Su, "Measurement Of Wavelength Shift By Using Surface Plasmon Resonance Heterodyne Interferometry", Optics Communications 209 (2002); Pages 167 - 172.
	John Markus, "Modern Electronic Circuits Reference Manual", McGraw-Hill, Inc., ISBN 0-07-040466-1, Page 699.
	Wen-Chuan Kuo, Chien Chou, Hsieh-Ting Wu, "Optical Heterodyne Surface-Plasmon Resonance Biosensor", August 1, 2003 / Vol. 28, No. 15 / Optics Letters; Pages 1329 - 1331.

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	A. N. Grigorenko, P. I. Nikitin, A. V. Kabashin, "Phase Jumps And Interferometric Surface Plasmon Resonance Imaging", Applied Physics Letters, Vol. 75, No. 25, December 20, 1999; Pages 3917 - 3919.
	A. V. Kabashin, V. E. Kochergin, A. A. Beloglazov, P. I. Nikitin, "Phase-Polarization Contrast For Surface Plasmon Resonance Biosensors", Biosensors & Bioelectronics 13 (1998); Pages 1263 - 1269.
	Gregory D. VanWiggeren, Ali R. Motamedi, Douglas M. Baney, "Single-Scan Interferometric Component Analyzer", IEEE Photonics Technology Letters, Vol. 15, No. 2, February 2003, Pages 263 - 265.

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	Yu Xinglong, Wang Dingxin, Yan Zibo, "Simulation And Analysis Of Surface Plasmon Resonance Biosensor Based On Phase Detection", Science Direct, Pages 285 - 290.
	Gregory D. VanWiggeren, Douglas M. Baney, "Swept-Wavelength Interferometric Analysis Of Multiport Components", IEEE Photonics Technology Letters, Vol. 15, No. 9, September 2003, Pages 1267 - 1269.

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